EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"20020052947"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 15:26
L2	33	(browser$5 with monitor$5) with (collect$5 adj3 data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 16:40
L3	6	2 and @ad<"20010403"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 16:43
L4	12073	709/224	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 15:27
L5	1	3 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 15:27
L6	85	"6070190"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 15:30
L7	14	"6356898"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 16:40
L8	14581	709/203	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 16:40

L9	8514	707/104.1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 16:40
L10	134	(browser$5 with monitor$5) with (analysis analyz$5 summariz$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 16:42
L11	8	10 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 16:43
L12	12	10 and 8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 16:42
L13	3	10 and 9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 16:43
L14	3	12 and @ad<"20000404"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 16:44
L15	0	13 and @ad<"20000404"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 16:44
L16	3	14 and @ad<"20000404"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/08 16:44

| L17 | 2 | 11 and @ad<"20000404" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/06/08 16:44 |

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[DOC] Microsoft SQL Server 2005 Analysis Services **Performance** Guide
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other agents' **activities**. For these systems, the ability to describe plans to ...... from reading
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System and method for content-based filtering of popup objects ...
In embodiments, the client-side filter 114 may, for instance, **calculate** an ... Other
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depends not only upon the **quantity** of computer hardware seized, ...
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1 Fast detection of communication patterns in distributed executions   ◼
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced
Studies on Collaborative research CASCON '97**
Publisher: IBM Press
Full text available: 🅟 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

    Understanding distributed applications is a tedious and difficult task. Visualizations based
    on process-time diagrams are often used to obtain a better understanding of the
    execution of the application. The visualization tool we use is Poet, an event tracer
    developed at the University of Waterloo. However, these diagrams are often very complex
    and do not provide the user with the desired overview of the application. In our
    experience, such tools display repeated occurrences of non-trivial commun ...

2 Optimization of query streams using semantic prefetching   ◼
◈ Ivan T. Bowman, Kenneth Salem
December 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 4
Publisher: ACM Press
Full text available: 🅟 pdf(1.10 MB)   Additional Information: full citation, abstract, references, index terms

    Streams of relational queries submitted by client applications to database servers contain
    patterns that can be used to predict future requests. We present the Scalpel system,
    which detects these patterns and optimizes request streams using context-based
    predictions of future requests. Scalpel uses its predictions to provide a form of semantic
    prefetching, which involves combining a predicted series of requests into a single request
    that can be issued immediately. Scalpel's semantic prefetching ...

    Keywords: Prefetching, query streams

3 Student design competition: My health, my life: a web-based health monitoring   ▣
◈ application
Paul Nuschke, Tara Holmes, Yaseen Qadah
April 2006 **CHI '06 extended abstracts on Human factors in computing systems CHI
'06**
Publisher: ACM Press
Full text available: 🅟 pdf(321.97 KB)   Additional Information: full citation, abstract, references, index terms

    Using a handwritten journal to track meals, exercise, and weight is a common practice in
    the dieting and exercise industry. However, one major problem with using these journals
    is that they do not simplify the laborious process of calculating the nutritional content of a
    meal. In addition, the journals are difficult to share with other people, especially

asynchronously. The "My Health, My Life" web application helps users reach their goals by simplifying the data entry process, while also connec ...

Keywords: Atkins, HCI, blood pressure, bulletin board, cholesterol, clients, computer, diabetes, diet, exercise, health, human, interaction, life, monitor, online community, usability, user-centered design, weight

4   Bandwidth and traffic estimation techniques: A methodology for estimating interdomain web traffic demand

Anja Feldmann, Nils Kammenhuber, Olaf Maennel, Bruce Maggs, Roberto De Prisco, Ravi Sundaram
October 2004 **Proceedings of the 4th ACM SIGCOMM conference on Internet measurement IMC '04**
Publisher: ACM Press

Full text available: pdf(1.08 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper introduces a methodology for estimating interdomain Web traffic lows between all clients worldwide and the ervers belonging to over one housand content providers. The idea is to use the server logs from a large ontent Delivery Network (CDN) to identify client downloads of content provider (i.e., publisher) Web pages. For each of these Web pages, a client typically downloads some objects from the content provider, some from the CDN, and perhaps some from third parties such as banner ...

Keywords: analysis, estimation, interdomain, traffic demand, traffic matrix, web

5   The interactive performance of SLIM: a stateless, thin-client architecture

Brian K. Schmidt, Monica S. Lam, J. Duane Northcutt
December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5
Publisher: ACM Press

Full text available: pdf(1.79 MB)   Additional Information: full citation, abstract, references, citings, index terms

Taking the concept of thin clients to the limit, this paper proposes that desktop machines should just be simple, stateless I/O devices (display, keyboard, mouse, etc.) that access a shared pool of computational resources over a dedicated interconnection fabric --- much in the same way as a building's telephone services are accessed by a collection of handset devices. The stateless desktop design provides a useful mobility model in which users can transparently resume their work on any desktop c ...

6   Bayesian approach to sensor-based context awareness

Panu Korpipää, Miika Koskinen, Johannes Peltola, Satu-Marja Mäkelä, Tapio Seppänen
July 2003 **Personal and Ubiquitous Computing**, Volume 7 Issue 2
Publisher: Springer-Verlag

Full text available: pdf(933.60 KB)   Additional Information: full citation, abstract, index terms

AbstractThe usability of a mobile device and services can be enhanced by context awareness. The aim of this experiment was to expand the set of generally recognizable constituents of context concerning personal mobile device usage. Naive Bayesian networks were applied to classify the contexts of a mobile device user in her normal daily activities. The distinguishing feature of this experiment in comparison to earlier context recognition research is the use of a naive Bayes framework, and an exte ...

Keywords: Audio context, Bayesian networks, Context awareness, Context recognition, Mobile computing, Sensor

7 GPRSWeb: optimizing the web for GPRS links

Rajiv Chakravorty, Andrew Clark, Ian Pratt

May 2003 **Proceedings of the 1st international conference on Mobile systems, applications and services MobiSys '03**

Publisher: ACM Press

Full text available: pdf(1.03 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>

The General Packet Radio Service (GPRS) is being deployed by GSM network operators world-wide, and promises to offer users "always-on" data access at bandwidths comparable to that of conventional fixed-line telephone modems. Unfortunately, many users have found the reality to be rather different, experiencing very disappointing performance when, for example, browsing the web over GPRS.In this paper we investigate what causes the HTTP protocol and its underlying transport TCP to underperform in a ...

8 Research papers: software process & workflow: Who should fix this bug?

John Anvik, Lyndon Hiew, Gail C. Murphy

May 2006 **Proceeding of the 28th international conference on Software engineering ICSE '06**

Publisher: ACM Press

Full text available: pdf(203.21 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>

Open source development projects typically support an open bug repository to which both developers and users can report bugs. The reports that appear in this repository must be triaged to determine if the report is one which requires attention and if it is, which developer will be assigned the responsibility of resolving the report. Large open source developments are burdened by the rate at which new bug reports appear in the bug repository. In this paper, we present a semi-automated approach in ...

Keywords: bug report assignment, bug triage, issue tracking, machine learning, problem tracking

9 Ubicomp at home and on the move: Privacy risk models for designing privacy-sensitive ubiquitous computing systems

Jason I. Hong, Jennifer D. Ng, Scott Lederer, James A. Landay

August 2004 **Proceedings of the 2004 conference on Designing interactive systems: processes, practices, methods, and techniques DIS '04**

Publisher: ACM Press

Full text available: pdf(176.06 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Privacy is a difficult design issue that is becoming increasingly important as we push into ubiquitous computing environments. While there is a fair amount of theoretical work on designing for privacy, there are few practical methods for helping designers create applications that provide end-users with a *reasonable* level of privacy protection that is commensurate with the domain, with the community of users, and with the risks and benefits to all stakeholders in the intended system. Towar ...

Keywords: privacy, privacy risk model, ubiquitous computing

10 Papers: breaking out of the monitor: Manipulating structured information in a visual workspace

Haowei Hsieh, Frank M. Shipman

October 2002 **Proceedings of the 15th annual ACM symposium on User interface software and technology UIST '02**

Publisher: ACM Press

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

Full text available: pdf(423.35 KB)　　　　　terms, review

This paper describes the VITE system, a visual workspace that supports two-way mapping for projecting structured information to a two-dimensional workspace and updating the structured information based on user interactions in the workspace. This is related to information visualization, but reflecting visual edits in the structured data requires a two-way mapping from data to visualization and from visualization to data. VITE provides users with an interface for designing two-way mappings. Mappin ...

Keywords: editable visualizations, information visualization, information workspace, two-way mappings

11 Adaptive resource management algorithms for indoor mobile computing environments
Songwu Lu, Vaduvur Bharghavan
August 1996 **ACM SIGCOMM Computer Communication Review , Conference proceedings on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '96**, Volume 26 Issue 4
Publisher: ACM Press

Full text available: pdf(299.22 KB)　　Additional Information: full citation, abstract, references, citings, index terms

Emerging indoor mobile computing environments seek to provide a user with an advanced set of communication-intensive applications, which require sustained quality of service in the presence of wireless channel error, user mobility, and scarce available resources. In this paper, we investigate two related approaches for the management of critical networking resources in indoor mobile computing environments:• adaptively re-adjusting the quality of service within pre-negotiated bounds in o ...

12 The hierarchical simulation language HSL: a versatile tool for process-oriented simulation
D. P. Sanderson, R. Sharma, R. Rozin, S. Treu
April 1991 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 1 Issue 2
Publisher: ACM Press

Full text available: pdf(2.68 MB)　　Additional Information: full citation, references, citings, index terms, review

Keywords: C++, HSL, hierarchy, inheritance, interpreter, modularity, process, simulation programming language

13 Columns: Risks to the public in computers and related systems
Peter G. Neumann
January 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 1
Publisher: ACM Press
Full text available: pdf(3.24 MB)　　Additional Information: full citation

14 Industrial/government track: Empirical Bayesian data mining for discovering patterns in post-marketing drug safety
David M. Fram, June S. Almenoff, William DuMouchel
August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '03**
Publisher: ACM Press
Full text available: pdf(461.25 KB)　　Additional Information: full citation, abstract, references, index terms

Because of practical limits in characterizing the safety profiles of therapeutic products prior to marketing, manufacturers and regulatory agencies perform post-marketing surveillance based on the collection of adverse reaction reports ("pharmacovigilance").The resulting databases, while rich in real-world information, are notoriously difficult to analyze using traditional techniques. Each report may involve multiple medicines, symptoms, and demographic factors, and there is no easily linked inf ...

Keywords: association rules, data mining, empirical Bayes methods, pharmacovigilance, post-marketing surveillance

15 Mobile web/accessibility overlaps: Evaluating interfaces for intelligent mobile search

Karen Church, Barry Smyth, Mark T. Keane
May 2006 **Proceedings of the 2006 international cross-disciplinary workshop on Web accessibility (W4A): Building the mobile web: rediscovering accessibility? W4A**
Publisher: ACM Press
Full text available: pdf(498.86 KB)   Additional Information: full citation, abstract, references, index terms

Recent developments in the mobile phone market have led to a significant increase in the number of users accessing the Mobile Internet. Handsets have been improved to support a diverse range of content types (text, graphics, audio, video etc.), infrastructure investments have delivered improved bandwidth, and changes to billing models offer users much greater value for content. Today large numbers of users are moving away from browsing operator portals and towards off-portal search, leading to a ...

Keywords: mobile interfaces, mobile internet, mobile search, mobile web, search interfaces, user evaluation

16 Cyber security through visualization

Kwan-Liu Ma
January 2006 **Proceedings of the 2006 Asia-Pacific Symposium on Information Visualisation - Volume 60 APVis '06**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(1.11 MB)   Additional Information: full citation, references, index terms

17 Planet scale software updates

Christos Gkantsidis, Thomas Karagiannis, Milan VojnoviC
August 2006 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2006 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '06**, Volume 36 Issue 4
Publisher: ACM Press
Full text available: pdf(1.19 MB)   Additional Information: full citation, abstract, references, index terms

Fast and effective distribution of software updates (a.k.a. patches) to millions of Internet users has evolved into a critical task over the last years. In this paper, we characterize "Windows Update", one of the largest update services in the world, with the aim to draw general guidelines on how to best design and architect a fast and effective planet-scale patch dissemination system. To this end, we analyze an extensive set of data traces collected over the period of a year, consisting of bill ...

Keywords: caching, peer-to-peer, software updates

18 Privacy and security: an ethical analysis

Gregory J. Walters
June 2001 **ACM SIGCAS Computers and Society**, Volume 31 Issue 2

Publisher: ACM Press
Full text available: pdf(1.98 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

19 <u>A semantic-based approach to component retrieval</u>
Vijayan Sugumaran, Veda C. Storey
August 2003 **ACM SIGMIS Database**, Volume 34 Issue 3
Publisher: ACM Press

Full text available: pdf(367.67 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

There continues to be a great deal of pressure to design and develop information systems within a short period of time. This urgency has reinvigorated research on software reuse, particularly in component based software development. One of the major problems associated with component-based development is the difficulty in searching and retrieving reusable components that meet the requirement at hand. In part, this problem exists because of the lack of sophisticated query methods and techniques. ...

Keywords: component based development, domain model, ontology, reuse repository, systems development

20 <u>Papers: Off the wall: Fluid interaction with high-resolution wall-size displays</u>
François Guimbretière, Maureen Stone, Terry Winograd
November 2001 **Proceedings of the 14th annual ACM symposium on User interface software and technology UIST '01**
Publisher: ACM Press

Full text available: pdf(1.34 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper describes new interaction techniques for direct pen-based interaction on the Interactive Mural, a large (6'x3.5') high resolution (64 dpi) display. They have been tested in a digital brainstorming tool that has been used by groups of professional product designers. Our "interactive wall" metaphor for interaction has been guided by several goals: to support both free-hand sketching and high-resolution materials, such as images, 3D models and GUI application windows; to pres ...

Keywords: FlowMenu, Large displays, interactive wall

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1 Operating system principles
Per Brinch Hansen
January 1973 Book
Publisher: Prentice-Hall, Inc.

Full text available: 📄 pdf(16.81 MB)   Additional Information: full citation, abstract, references, citings, index terms

From the Preface

MAIN GOAL

This book tries to give students of computer science and professional programmers a general understanding of *operating systems*--the programs that enable people to share computers efficiently.

To make the sharing of a computer tolerable, an operating system must enforce certain rules of behavior on all its users. One would therefore expect the designers of operating systems to do their utmost to make them as s ...

2 Monitoring data archives for grid environments
Jason Lee, Dan Gunter, Martin Stoufer, Brian Tierney
November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing Supercomputing '02**
Publisher: IEEE Computer Society Press

Full text available: 📄 pdf(107.31 KB)   Additional Information: full citation, abstract, references, citings, index terms

Developers and users of high-performance distributed systems often observe performance problems such as unexpectedly low throughput or high latency. To determine the source of these performance problems, detailed end-to-end monitoring data from applications, networks, operating systems, and hardware must be correlated across time and space. Researchers need to be able to view and compare this very detailed monitoring data from a variety of angles. To address this problem, we propose a relational ...

3 Performance measurement of data communications systems with emphasis on Open System Interconnections (OSI)
Arpad Gallo, Richard P. Wilder
May 1981 **Proceedings of the 8th annual symposium on Computer Architecture ISCA '81**
Publisher: IEEE Computer Society Press

Full text available: 📄 pdf(781.15 KB)   Additional Information: full citation, abstract, references, index terms

This paper discusses the problems arising from the need for measuring data communication performance parameters. It derives the statistical information needs from the needs of known network models and from the performance parameter standards defined in the Federal Government and ANSI Standards on Data Communication Performance. It reviews existing monitoring devices and outlines their capabilities and shortcomings in regard to collecting data communication performance statistics. In conclus ...

4 Disk throughput estimation
David L. Stone, Rollins Turner
August 1972 **Proceedings of the ACM annual conference - Volume 2 ACM '72**
Publisher: ACM Press

Full text available: pdf(665.33 KB)   Additional Information: full citation, abstract, references, citings, index terms

This is a report of practical, quantitative techniques for predicting throughput of movable head disks in a time-shared, multiprogrammed system. Theoretical relationships between throughput and load are considered first. Then a technique is explained whereby the actual source code of the timesharing monitor's disk service routine is incorporated into a simulation program. Finally, actual throughput measurements, made on a system running with carefully controlled loads, are reported. Compari ...

Keywords: Disk optimization, Disk performance analysis, Disk system simulation, Disk throughput, Multiprogrammed, Timeshared

5 A virtual loss-load congestion control strategy for high speed networks
Narayanan Prithviraj, Carey L. Williamson
April 1996 **ACM SIGCOMM Computer Communication Review**, Volume 26 Issue 2
Publisher: ACM Press
Full text available: pdf(1.33 MB)   Additional Information: full citation, abstract, citings, index terms

This paper evaluates a hybrid congestion control strategy called the Virtual Loss-Load model. The approach combines the leaky bucket traffic shaper (a preventive congestion control mechanism) with the loss-load model (a reactive congestion control mechanism). Simulation is used to evaluate the virtual loss-load model, and to compare its performance to that of other reactive congestion control strategies from the literature. The evaluation is done using a benchmark suite of network scenarios prop ...

6 Adaptive performance prediction for distributed data-intensive applications
Marcio Faerman, Alan Su, Richard Wolski, Francine Berman
January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '99**
Publisher: ACM Press
Full text available: pdf(292.25 KB)   Additional Information: full citation, references, citings, index terms

7 Loss-load curves: support for rate-based congestion control in high-speed datagram networks
Carey L. Williamson, David R. Cheriton
August 1991 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architecture & protocols SIGCOMM '91**, Volume 21 Issue 4
Publisher: ACM Press
Full text available: pdf(1.25 MB)   Additional Information: full citation, references, citings, index terms

8
M-TCP: TCP for mobile cellular networks

Kevin Brown, Suresh Singh
October 1997 **ACM SIGCOMM Computer Communication Review**, Volume 27 Issue 5
Publisher: ACM Press
Full text available: pdf(1.96 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

Transport connections set up over wireless links are frequently plagued by problems such as - high bit error rate (BER), frequent disconnections of the mobile user, and low wireless bandwidth that may change dynamically. In this paper, we study the effects of frequent disconnections and low variable bandwidth on TCP throughput and propose a protocol that addresses this problem. We discuss the implementation (in NetBSD) of our protocol called M-TCP and compare its performance against other mobile ...

9   The multics system: an examination of its structure
Elliott I. Organick
January 1972 Book
Publisher: MIT Press

Full text available: pdf(23.94 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>

This volume provides an overview of the Multics system developed at M.I.T.--a time-shared, general purpose utility like system with third-generation software. The advantage that this new system has over its predecessors lies in its expanded capacity to manipulate and file information on several levels and to police and control access to data in its various files. On the invitation of M.I.T.'s Project MAC, Elliott Organick developed over a period of years an explanation of the workings, concep ... .

10 Business processes and conversations: Decentralized orchestration of composite web services
Girish B. Chafle, Sunil Chandra, Vijay Mann, Mangala Gowri Nanda
May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters WWW Alt. '04**
Publisher: ACM Press

Full text available: pdf(166.96 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Web services make information and software available programmatically via the Internet and may be used as building blocks for applications. A composite web service is one that is built using multiple component web services and is typically specified using a language such as BPEL4WS or WSIPL. Once its specification has been developed, the composite service may be *orchestrated* either in a *centralized* or in a *decentralized* fashion. Decentralized orchestration offers perf ...

Keywords: BPEL4WS, code partitioning, composite web services, decentralized orchestration

11 Measuring and characterizing end-to-end Internet service performance
Ludmila Cherkasova, Yun Fu, Wenting Tang, Amin Vahdat
November 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 4
Publisher: ACM Press

Full text available: pdf(1.46 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Fundamental to the design of reliable, high-performance network services is an understanding of the performance characteristics of the service as perceived by the client population as a whole. Understanding and measuring such end-to-end service performance is a challenging task. Current techniques include periodic sampling of service characteristics from strategic locations in the network and instrumenting Web pages with code that reports client-perceived latency back to a performance server. Li ...

Keywords: End-to-end service performance, QoS, network packet traces, passive

monitoring, reconstruction of web page composition, web site performance

12 Deployment experience: Design and deployment of industrial sensor networks:
experiences from a semiconductor plant and the north sea
Lakshman Krishnamurthy, Robert Adler, Phil Buonadonna, Jasmeet Chhabra, Mick Flanigan,
Nandakishore Kushalnagar, Lama Nachman, Mark Yarvis
November 2005 **Proceedings of the 3rd international conference on Embedded
networked sensor systems SenSys '05**
Publisher: ACM Press

Full text available: pdf(677.48 KB)   Additional Information: full citation, abstract, references, citings, index terms

Sensing technology is a cornerstone for many industrial applications. Manufacturing plants
and engineering facilities, such as shipboard engine rooms, require sensors to ensure
product quality and efficient and safe operation. We focus on one representative
application, preventative equipment maintenance, in which vibration signatures are
gathered to predict equipment failure. Based on application requirements and site
surveys, we develop a general architecture for this class of industrial appli ...

Keywords: embedded hardware design, industrial applications of sensor networks

13 Throughput guarantees for elastic flows using end-to-end admission control
Lluís Fàbrega, Teodor Jové, Yezid Donoso Meisel
October 2003 **Proceedings of the 2003 IFIP/ACM Latin America conference on
Towards a Latin American agenda for network research LANC '03**
Publisher: ACM Press
Full text available: pdf(255.92 KB)   Additional Information: full citation, abstract, references

Internet applications such as web or ftp will be satisfactorily supported by a guaranteed
minimum throughput service. We propose to build this service in a core-stateless network
such as Differentiated Services with an Admission Control (AC) method based on end-to-
end measurements, using the first packets of the flow. The whole scheme uses a small set
of packet classes (with different discarding priorities), and is therefore simple and
scalable. We evaluate the scheme through simulations in s ...

14 Implementing a performance forecasting system for metacomputing: the Network
Weather Service
Rich Wolski, Neil Spring, Chris Peterson
November 1997 **Proceedings of the 1997 ACM/IEEE conference on Supercomputing
(CDROM) Supercomputing '97**
Publisher: ACM Press
Full text available: pdf(844.93 KB)   Additional Information: full citation, abstract, references, citings

In this paper we describe the design and implementation of a system called the **Network
Weather Service** (NWS) that takes periodic measurements of deliverable resource
performance from distributed networked resources, and uses numerical models to
dynamically generate forecasts of future performance levels. These performance
forecasts, along with measures of performance fluctuation (e.g. the mean square
prediction error) and forecast lifetime that the NWS generates, are made available to
sch ...

15 A Straightforward Model for Computer Performance Prediction
John W. Boyse, David R. Warn
June 1975 **ACM Computing Surveys (CSUR)**, Volume 7 Issue 2
Publisher: ACM Press
Full text available: pdf(1.56 MB)   Additional Information: full citation, references, citings, index terms

16 Experimental testbeds and data: Performance optimizations for wireless wide-area networks: comparative study and experimental evaluation

Rajiv Chakravorty, Suman Banerjee, Pablo Rodriguez, Julian Chesterfield, Ian Pratt

September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking MobiCom '04**

Publisher: ACM Press

Full text available: pdf(262.46 KB)   Additional Information: full citation, abstract, references, citings, index terms

We present a comparative performance study of a wide selection of optimization techniques to enhance application performance in the context of wide-area wireless networks (WWANs). Unlike in traditional wired and wireless IP-based networks, applications running over WWAN cellular environments are significantly affected by the vagaries of the cellular wireless medium. Prior research has proposed and analyzed optimizations at individual layers of the protocol stack. In contrast, we introduce the fi ...

Keywords: 3G, CDMA 2000, GPRS, HTTP, TCP, UMTS, cellular, cross-layer interactions, multi-layer performance optimizations, proxy

17 Network behavior: TCP Nice: a mechanism for background transfers

Arun Venkataramani, Ravi Kokku, Mike Dahlin

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Publisher: ACM Press

Full text available: pdf(1.65 MB)   Additional Information: full citation, abstract, references, index terms

Many distributed applications can make use of large *background transfers*--transfers of data that humans are not waiting for--to improve availability, reliability, latency or consistency. However, given the rapid fluctuations of available network bandwidth and changing resource costs due to technology trends, hand tuning the aggressiveness of background transfers risks (1) complicating applications, (2) being too aggressive and interfering with other applications, and (3) being too timid a ...

18 A hardware monitor study of a CDC KRONOS system

David S. Lindsay

March 1976 **Proceedings of the 1976 ACM SIGMETRICS conference on Computer performance modeling measurement and evaluation SIGMETRICS '76**

Publisher: ACM Press

Full text available: pdf(509.51 KB)   Additional Information: full citation, abstract, citings, index terms

This study was performed on a CDC-6600 computer having 500K of Extended Core Storage (ECS), twenty Peripheral Processor Units (PPU's) and twenty-four I/O channels, as shown in Figure I-1. The CPU can load, store, and execute from the 131K of 1 microsecond storage which comprises CM. It can also access ECS, but this access is limited to transferring blocks of data between CM and ECS at the rate of ten 60-bit words per microsecond. The CPU cannot access peripheral devices in any manner whatev ...

19 Designing and implementing QoS management of the web

Maksim A. Aleksandrov, Vladislav S. Voinov

November 1998 **Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative research CASCON '98**

Publisher: IBM Press

Full text available: pdf(188.73 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper summarizes our efforts taken to challenge the issues of management systems that perform control over explicitly given expectations on service quality of the Web-based systems. Goals and principles of management, Quality of Service (QoS) metrics and controllable parameters, and architecture of the management system prototype are described and analyzed. Various management policies that can be applied within the Web Management System (WMS) are presented and discussed. Presented WMS proto ...

20 RAID: high-performance, reliable secondary storage

Peter M. Chen, Edward K. Lee, Garth A. Gibson, Randy H. Katz, David A. Patterson

June 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 2

Publisher: ACM Press

Full text available: pdf(3.60 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Disk arrays were proposed in the 1980s as a way to use parallelism between multiple disks to improve aggregate I/O performance. Today they appear in the product lines of most major computer manufacturers. This article gives a comprehensive overview of disk arrays and provides a framework in which to organize current and future work. First, the article introduces disk technology and reviews the driving forces that have popularized disk arrays: performance and reliability. It discusses the tw ...

Keywords: RAID, disk array, parallel I/O, redundancy, storage, striping

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